SELISSEO®, THE INNOVATIVE ORGANIC SELENIUM BASED ANTIOXIDANT

EVEN IN CHALLENGING CONDITIONS...

... PERFORMANCE WILL BE SUPPORTED

Selisseo® provides 100% active OH-SeMet batch after batch

Selisseo's consistent particle size without fines make for safe and easy mixing into the feed, with low dust.

Selisseo® can withstand extreme feed processing conditions including high temperatures and pressures

DESCRIPTION

Selisseo® 2% Se
Composition
Active substance: Hydroxy-selenomethionine (OH-SeMet)
Chemical formula: CH₃-Se-(CH₂)₂-CH(OH)-COOH
Carrier: Silica
Appearance: Powder
Color: White to light beige
Selenium Content: Min 2%
HMSeBA: Min 5%

Selisseo® 0.1% Se
Composition
Active substance: Hydroxy-selenomethionine (OH-SeMet)
Chemical formula: CH₃-Se-(CH₂)₂-CH(OH)-COOH
Carrier: Silica, Limestone fine
Appearance: Powder
Color: White to light beige
Selenium Content: Min 0.1%
HMSeBA: Min 0.25%

Recommendations for Use
10-15 g/MT of feed* 200-300 g/MT of feed*

Packaging
Selisseo® 2% Se: 20 kg carton (400 kg/pallet)
Selisseo® 0.1% Se: 25 kg bag (1000 kg/pallet)

* Vary per regulation and country

www.adisseo.com  I  feedsolutions.adisseo.com

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SELISSEO® HELPS BIRDS FIGHT OXIDATIVE STRESS

Birds face many kinds of stress during production: nutritional, environmental, sanitary, technological... These negatively impact bird performance which costs money. Selisseo® alleviates the effects stress has on the animals.

SELISSEO®, THE INNOVATIVE ANTIOXIDANT
Selisseo® contains 100% hydroxy-selenomethionine, a pure and highly available form of organic selenium.

LAYERS
Selisseo® promotes high egg production.

BETTER EGG QUALITY
- Selenium enriched eggs: +50% selenium content
- Improved and longer freshness: +78% Haugh units after 10 days storage
- Better albumen viscosity: +55%

All the results reported in this document are extracted from trials where Selisseo® was compared to another source of selenium. They should be considered as examples demonstrating the effect of Selisseo®.

(1) Trial conducted in Brazil, University of Sao Paulo, 2016
(2) Trial conducted in India, Nalanda Broiler Research Farm, 2015
(3) Trial conducted in China, Andisu Life Sciences, 2016
(4) Trial conducted in France, INRA-UFA, 2016
(5) Scientific publication: Effect of 2-hydroxy-4-methylselenobutanoic acid as a dietary selenium supplement to improve the selenium concentration of table eggs, Jilali et al.
(6) Trial conducted in Thailand, 2015
(7) Trial conducted in France, INRA-Agro Campus Ouest, 2016
(8) Trial conducted in France on turkey meat, CERN, 2014

*GPx: Glutathion peroxidase
**BREEDERS**

Selisseo® improves reproduction performance in breeders.

Fertility rate +3.5%⁽¹⁾

**BETTER PROGENY STATUS**

- Higher hatchability: +10.8%⁽¹⁾
- Enhanced antioxidant status: +15% GPx⁽²⁾ offering greater robustness of day-old chicks.

**BROILERS**

Selisseo® alleviates the effect of stress on growth and allows the bird to maintain high levels of performance.

**BETTER MEAT QUALITY**

- Reduced drip loss: up to 19%⁽³⁾
- Maintained protein content in muscle in case of heat stress: +3%⁽⁴⁾
- Slow down the oxidation process of meat, prolonging shelflife⁽⁸⁾

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**THE ANTIOXIDANT FUNCTION OF SELENIUM**

At a cellular level, stress translates into an increased production of oxidative species, upsetting the balance between prooxidants and antioxidants and damaging cell structures.

**Selenium, a key player in antioxidant defenses:** Selenium is present in 2 amino acids: the storage form selenomethionine (SeMet) replaces regular methionine in proteins; the active form selenocysteine (SeCys) is found only in the catalytic site of several proteins called selenoproteins. Several of these selenoproteins are antioxidant enzymes.

Selisseo® promotes the functional form of selenium, SeCys, present in selenoproteins that maintain the oxidative balance in spite of external stresses.

Se forms in broiler breast muscle at D7 (mg eq Se/kg DM)

![Graph showing Se forms in broiler breast muscle at D7](image)

**Selisseo® is the most efficient organic Se source** in inducing both higher Se deposition and higher SeCys content, thus providing animals with high antioxidant capacities.
LET'S USE SELISSEO® IN YOUR FEED!
IT’S RELIABLE, STABLE, SAFE AND EASY TO USE!

**Selisseo®** can withstand extreme feed processing conditions including high temperatures and pressures.

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